

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Currently Amended) A milling cutter tool, comprising:
a milling cutter body having a plurality of insert pockets, in combination with an indexable cutting insert tangentially mounted in the insert pocket, each cutting insert comprising a body defined by first and second face surfaces, first and second long edge surfaces, and first and second radiused shorter edge surfaces, wherein each indexable cutting insert includes a clamping screw bore substantially perpendicular to an axis of rotation of the milling cutter body such that the indexable cutting insert is tangentially mounted on the milling cutter body, and wherein the milling cutter body includes a platform that is angled with respect to a longitudinal axis of the milling cutter body such that each indexable cutting insert is tangentially mounted on the milling cutter body with a reverse lead angle.
2. (Original) The milling cutter tool according to Claim 1, wherein the reverse lead angle is approximately 5 degrees.
3. (Original) The milling cutter tool according to Claim 1, wherein each indexable cutting insert is tangentially mounted with a negative axial rake angle of approximately 5 degrees.
4. (Original) The milling cutter tool according to Claim 1, wherein each long edge surface defines a cutting face that includes a profile defined by a substantially flat central plateau, a first facet face, a second facet face and a third facet face.
5. (Previously Presented) The milling cutter tool according to Claim 4, wherein the first facet face has a downward angle in a range of approximately 5 degrees to 45 degrees with respect to a longitudinal axis of the cutting insert.

6. (Previously Presented) The milling cutter tool according to Claim 5, wherein the downward angle is approximately 30 degrees with respect to the longitudinal axis of the cutting insert.

7. (Previously Presented) The milling cutter tool according to Claim 5, wherein the third facet face has a upward angle in a range of approximately 5 degrees to 45 degrees with respect to a longitudinal axis of the cutting insert.

8. (Previously Presented) The milling cutter tool according to Claim 7, wherein the upward angle is approximately 20 degrees with respect to the longitudinal axis of the cutting insert.

9. (Original) The milling cutter tool according to Claim 5, wherein the central plateau is generally hexagonal in shape that includes a pair of opposite sides and two pair of angled sides.

10. (Original) The milling cutter tool according to Claim 1, wherein a cutting edge is defined along an intersection of one of the first and second face surfaces with one of the first and second long edge surfaces and one of first and second shorter radiused edge surfaces.

11. (Original) The milling cutter tool according to Claim 10, wherein the cutting edge is further defined by a pair of cutting edges defined by an intersection of the first long edge surface with the first face surface and an intersection of the first long edge surface with the first shorter radiused edge surface adjacent the first face surface.

12. (Currently Amended) A tangentially mounted indexable cutting insert for a milling cutter tool, comprising:

a body defined by first and second face surfaces;

first and second long edge surfaces; and

first and second radiused shorter edge surfaces,

wherein each long edge surface defines a primary cutting edge that extends from a substantially flat central plateau, through a first facet face, through a second facet face adjacent the first facet face, through a third facet face adjacent the second facet face to one of the first and second radiused shorter edge surfaces such that the second facet face is disposed between the first facet face and the third facet face.

13. (Previously Presented) The cutting insert according to Claim 12, wherein the first facet face has a downward angle in a range of approximately 5 degrees to 45 degrees with respect to a longitudinal axis of the cutting insert.

14. (Previously Presented) The cutting insert according to Claim 13, wherein the downward angle is approximately 30 degrees with respect to the longitudinal axis of the cutting insert.

15. (Previously Presented) The cutting insert according to Claim 12, wherein the third facet face has an upward angle in a range of approximately 5 degrees to 45 degrees with respect to a longitudinal axis of the cutting insert.

16. (Previously Presented) The cutting insert according to Claim 15, wherein the upward angle is approximately 20 degrees with respect to a longitudinal axis of the cutting insert.

17. (Original) The cutting insert according to Claim 12, wherein the central plateau is generally hexagonal in shape that includes a pair of opposite sides and two pair of angled sides.

18. (Canceled).

19. (Canceled).

20. (Original) The cutting insert according to Claim 12, wherein the cutting insert is tangentially mounted with a reverse lead angle.

21. (Original) The cutting insert according to Claim 20, wherein the reverse lead angle is approximately 5 degrees.

Attorney Docket: K-1851
S.N.: 10/623,844

22. (Original) The cutting insert according to Claim 12, wherein each indexable cutting insert is tangentially mounted to the milling cutter tool with a negative axial rake angle of approximately 5 degrees.